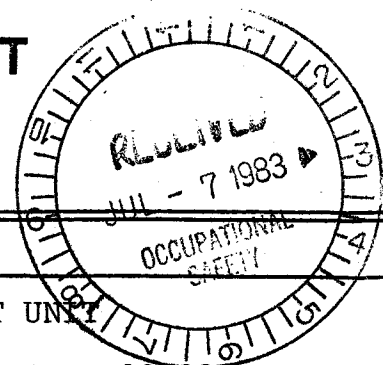


MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP
JUNE 25, 1980



Section I

MANUFACTURER'S NAME BOSTIK WEST, DIV. OF USM CORPORATION, AN EMHART UNIT

STREET ADDRESS 20846 So. Normandie Ave. CITY, STATE, AND ZIP CODE Torrance, Ca. 90502

EMERGENCY TELEPHONE NO. (213 320-6800)

PRODUCT CLASS EPOXY

MANUFACTURERS CODE IDENTIFICATION 473-3-1

Catalyst: X-304

TRADE NAME BOSTIK

DPM 11D CLEAR GLOSS

Mix Ratio: 3 parts 473-3-1 (Base)
to 1 part X-304 by volume

Section II - HAZARDOUS INGREDIENTS

| INGREDIENT | PERCENT (WT.) | TLV | | LEL | VAPOR PRESSURE mm Hg. |
|-----------------------|------------------|--------|-------------------|-----|-----------------------------|
| | | PPM | mg/M ³ | | |
| 473-3-1 (BASE ONLY) | | | | | |
| AROMATIC SOLVENTS | 10-15 | 100 | | 1.0 | 22.0 |
| KETONE SOLVENTS | 35-40 | 25-200 | | 1.2 | 70.0 |
| ALCOHOL SOLVENTS | < 5.0 | 400 | | 2.5 | 33.0 |
| GLYCOL ETHER SOLVENTS | 5-10 | 50 | | 1.1 | 1.0 |

Section III - PHYSICAL DATA

| | | | | | | |
|------------------|---------------------------------|---|---|---|-------------------|----------|
| BOILING RANGE | 176-340 Deg. F. | VAPOR DENSITY | <input checked="" type="checkbox"/> HEAVIER | <input type="checkbox"/> LIGHTER THAN AIR | | |
| EVAPORATION RATE | <input type="checkbox"/> FASTER | <input checked="" type="checkbox"/> SLOWER THAN ETHER | PERCENT VOLATILE BY VOLUME | 67% | WEIGHT PER GALLON | 8.0 lbs. |

Section IV - FIRE AND EXPLOSION HAZARD DATA

| | | | |
|------------------------------------|--|-----------------------|---------------------------------------|
| DOT CATEGORY | Red Label, Flammable | (Min.) FLASH POINT | 23 Deg. F., Tag Closed LEL 1.0 Cup |
| EXTINGUISHING MEDIA | Exclude air - Use foam, CO ₂ , steam, water-fog, dry chemicals. Do not use water. | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | Vapor forms explosive mixture with air between upper and lower explosion limits. | | |
| SPECIAL FIRE FIGHTING PROCEDURES | Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel. | | |

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See Section II

EFFECTS OF OVEREXPOSURE Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

EMERGENCY AND FIRST AID PROCEDURES: Skin Exposure: Wash affected area with soap and water.
Exposure: Flush with water for at least 15 minutes, consult physician.
Ingestion: Consult physician immediately.
Inhalation: Remove victim to fresh air, consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID :Storage at high temperatures.

INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents, Inorganic acids Sparks & Open Flame

HAZARDOUS DECOMPOSITION PRODUCTS

On combustion CO, CO₂, Oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID None

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash area with detergent & water. Consult disposal expert and ensure conformity with local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION Use approved respiratory protection such as an air-supplied mask if used in non ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION Face velocity > 60 fpm in confined area.

PROTECTIVE GLOVES: Chemically resistant gloves.


EYE PROTECTION: Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT: Eye bath & safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Material is sensitive to moisture & should be kept in tightly closed containers. Do not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied these containers retain product residues (vapor, liquid, etc).

All handling equipment should be electrically grounded. Treat as a very flammable liquid.


Kenneth B. Silberberg
Technical Administrative Manager